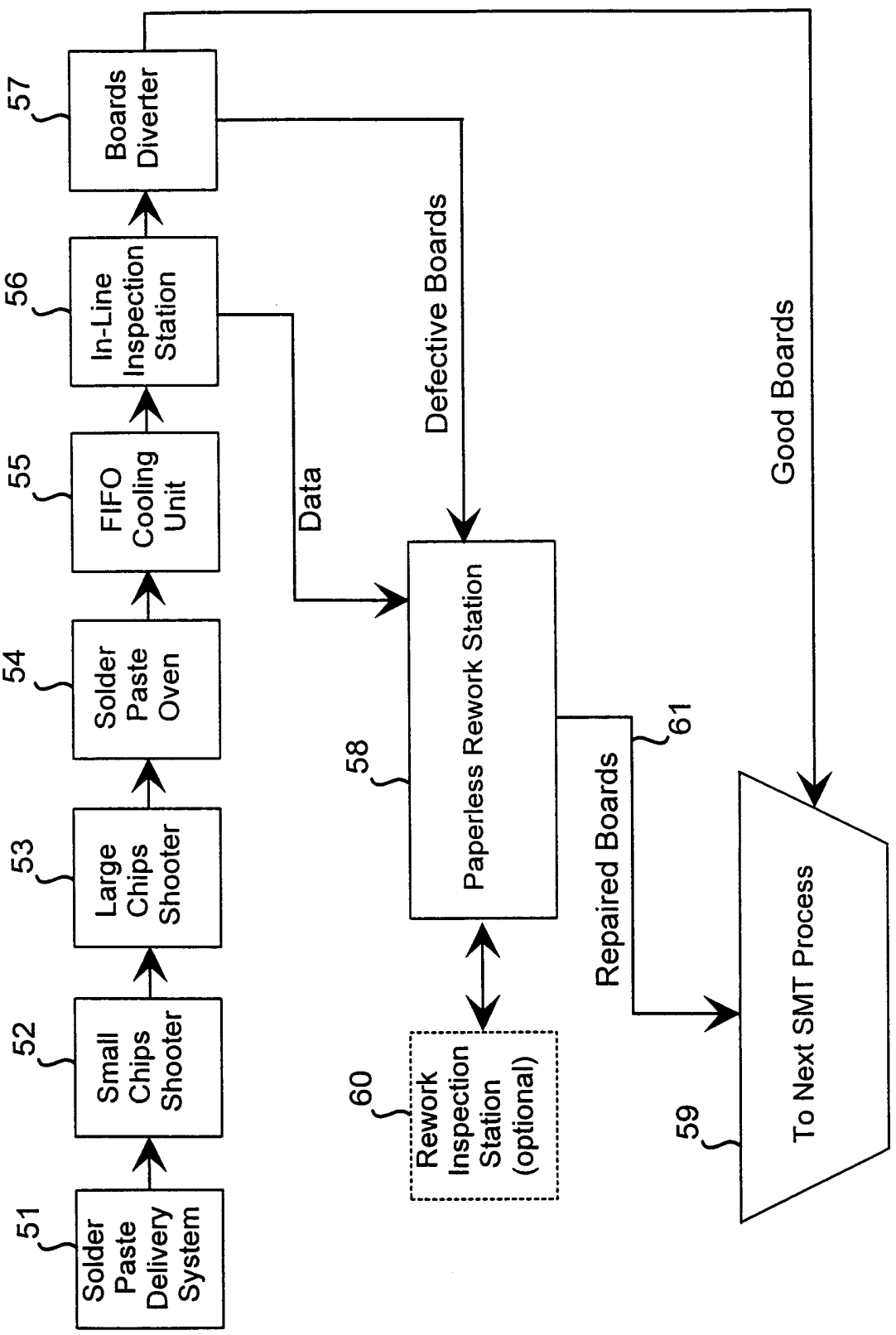

51
Solder Paste Delivery System
52
Small Chips Shooter
53
Large Chips Shooter
54
Solder Paste Oven
55
FIFO Cooling Unit
56
In-Line Inspection Station
57
Boards Diverter
Data
Defective Boards
Good Boards
58
Paperless Rework Station
60
Rework Inspection Station (optional)
61
Repaired Boards
59
To Next SMT Process

FIG. 1

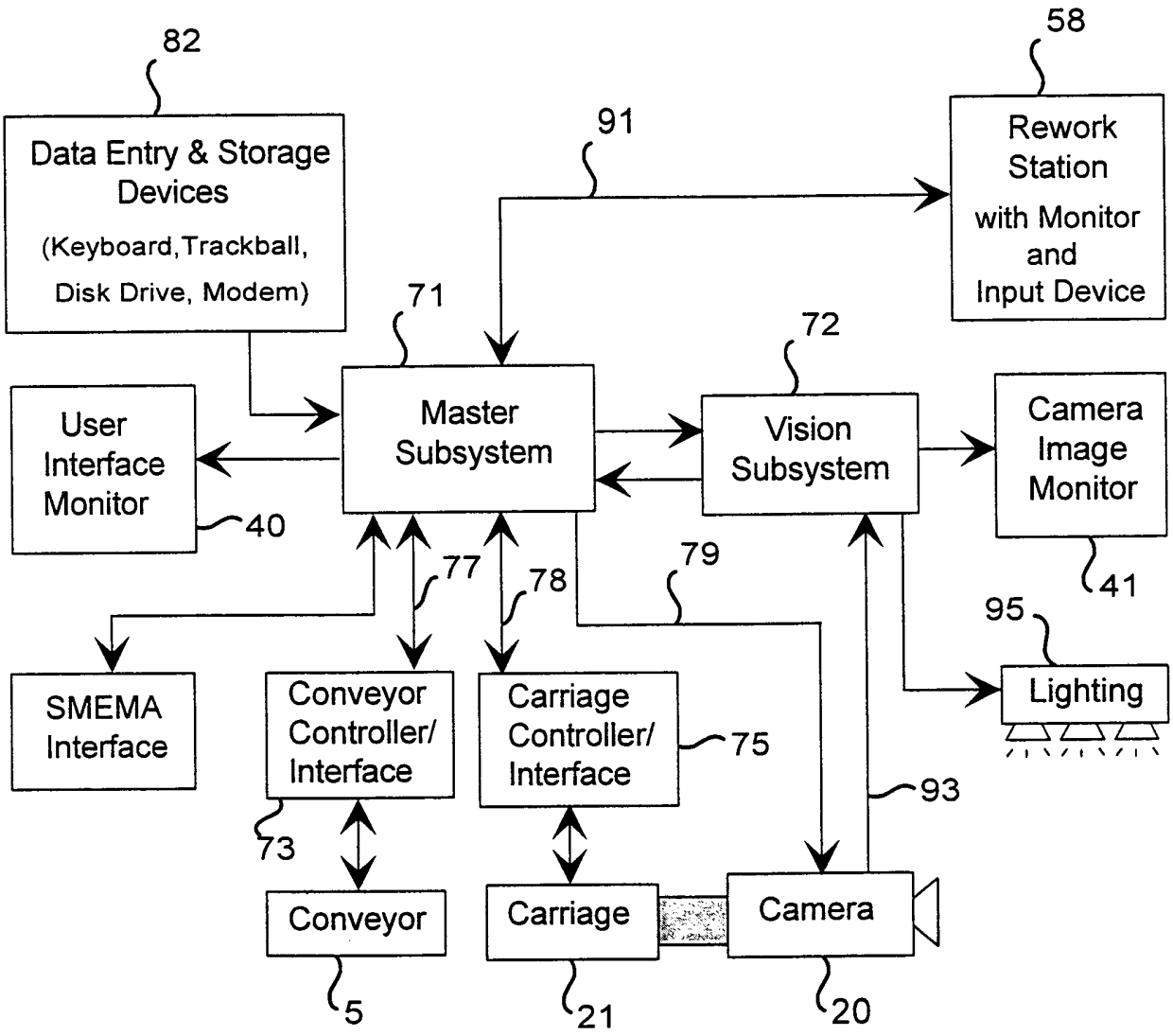
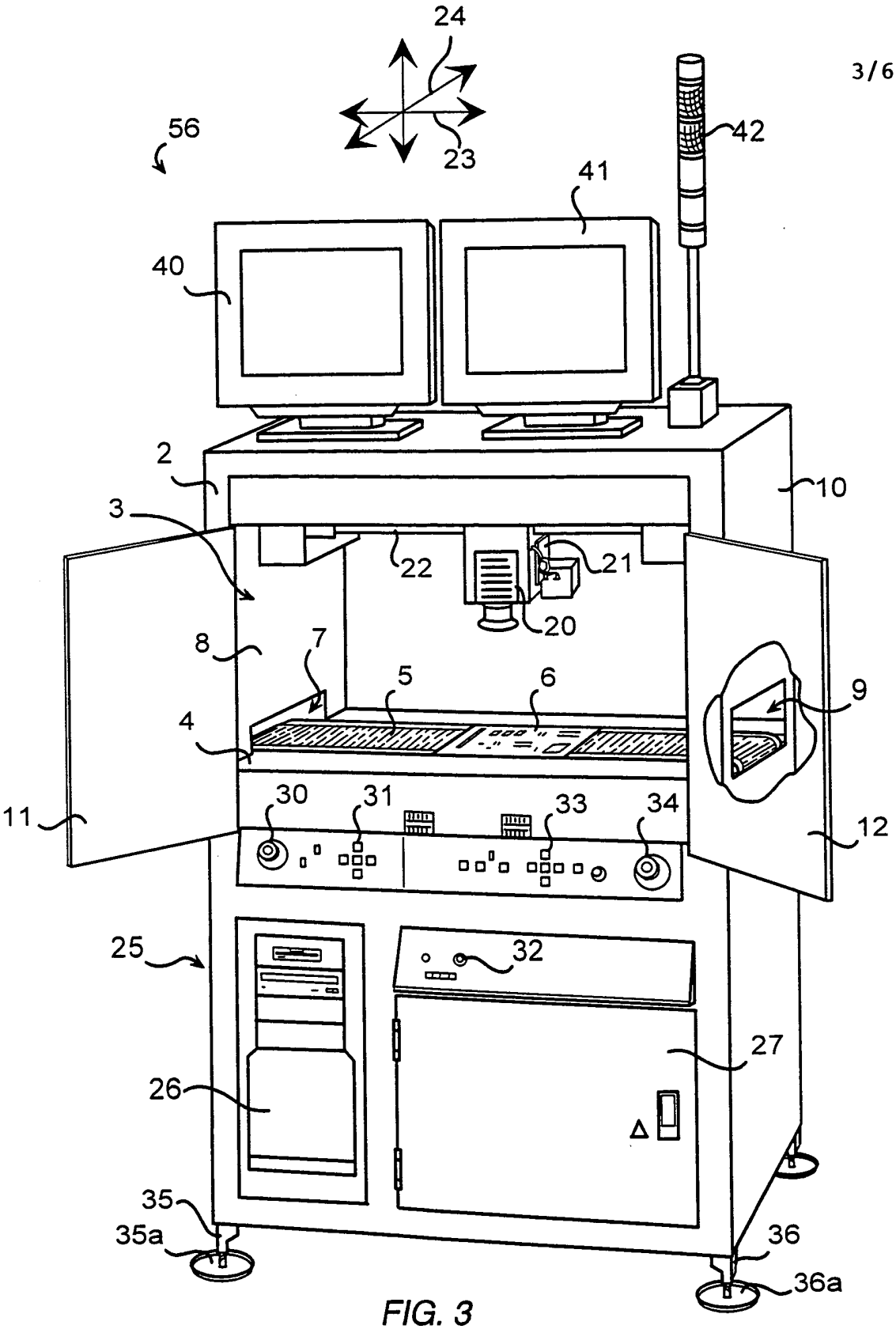

82
Data Entry & Storage Devices
(Keyboard, Trackball, Disk Drive, Modem)
91
58
Rework Station
with Monitor and Input Device
71
72
User Interface Monitor
40
Master Subsystem
Vision Subsystem
Camera Image Monitor
41
77
78
79
95
SMEMA Interface
Conveyor Controller/ Interface
Carriage Controller/ Interface
75
Lighting
93
73
Conveyor
Carriage
Camera
5
21
20

*FIG. 2*


24
23
56
42
41
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2
10
3
22
21
20
8
7
5
6
9
4
30
31
33
34
11
12
25
32
27
26
35
35a
36
36a

FIG. 3

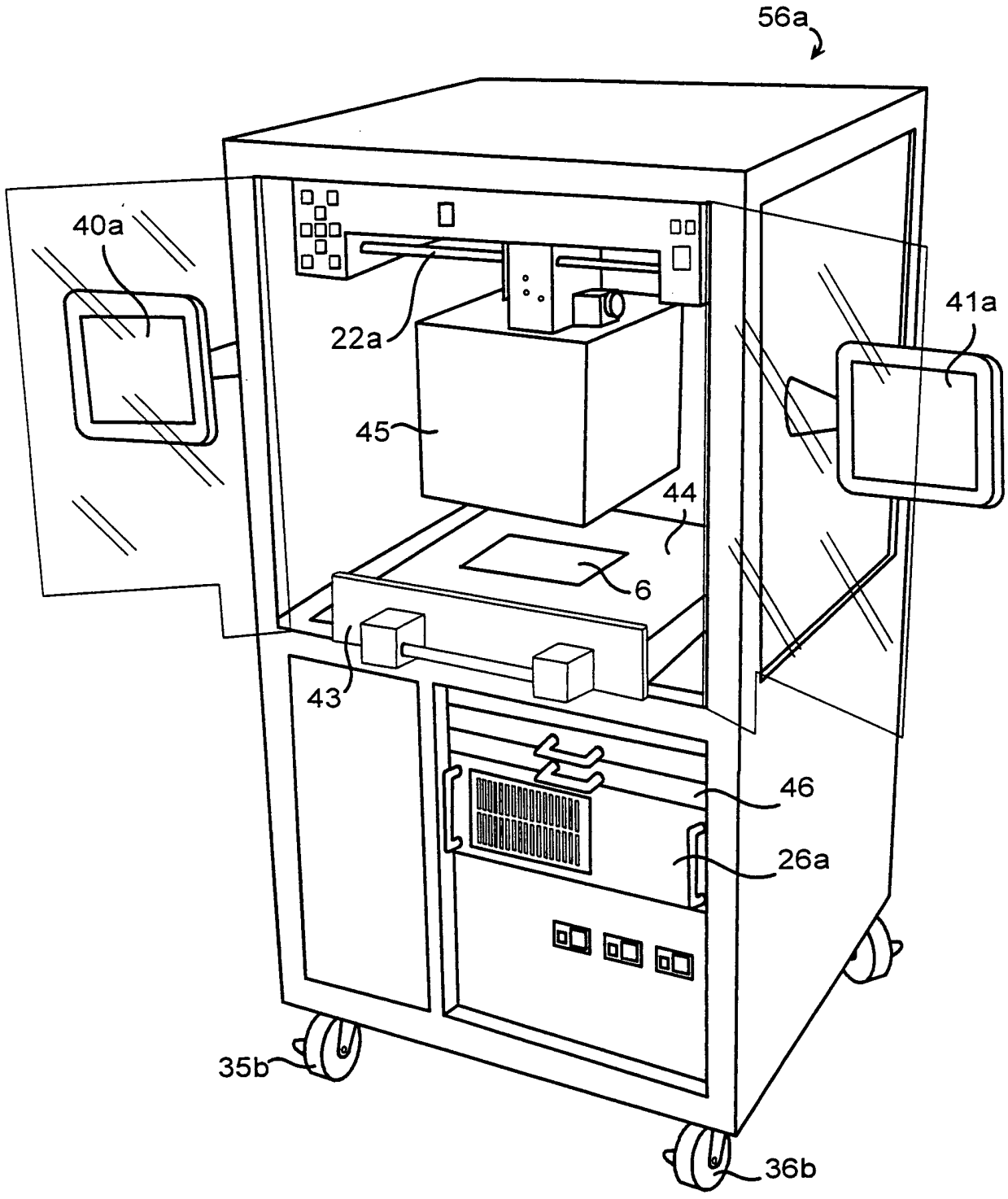


FIG. 4

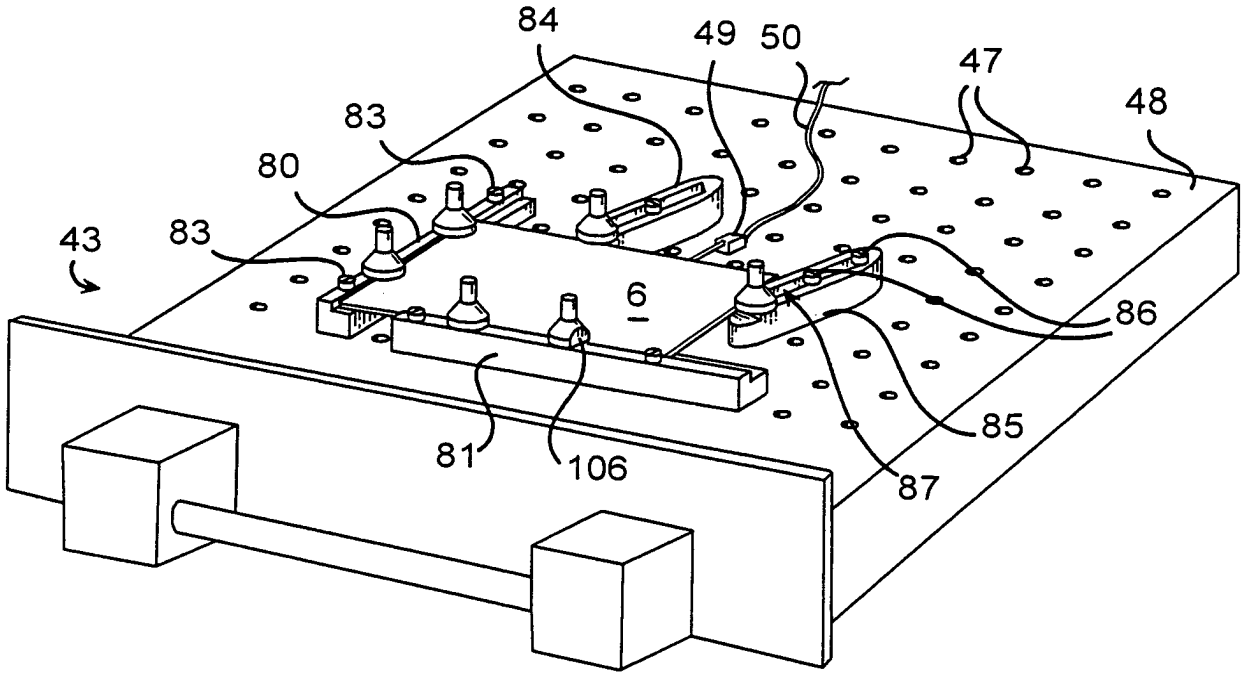
84
49
50
47
48
83
80
43
83
6
86
85
81
106
87

FIG. 5

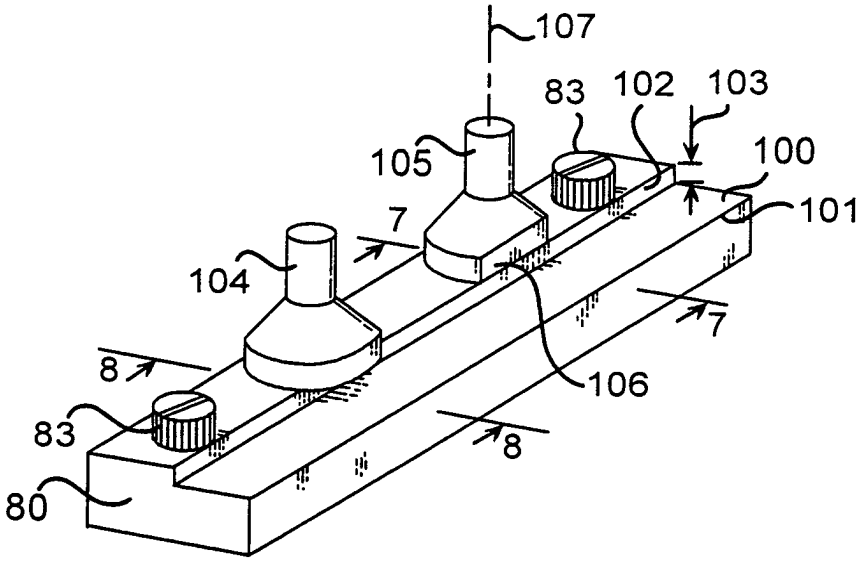
107
83
102
103
105
100
101
7
104
7
8
106
83
8
80

FIG. 6

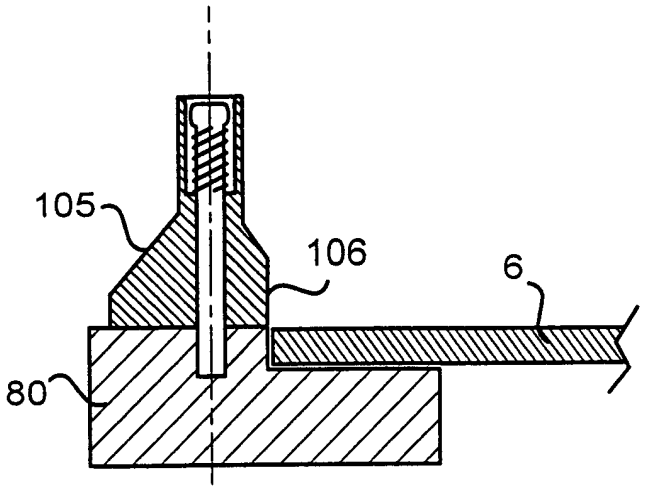


FIG. 7

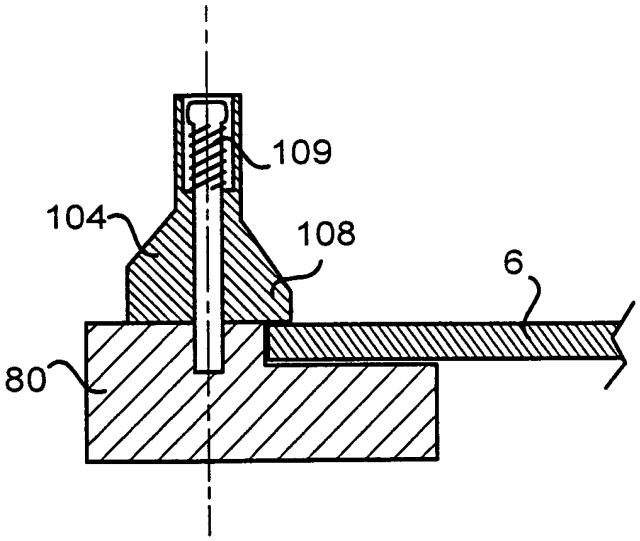


FIG. 8